(10). 1994. 1147. ISSN: 0031-949X
DT Conference
LA English

L5 ANSWER 47 OF 47 BIOSIS COPYRIGHT 1998 BIOSIS
AN 92:459369 BIOSIS
DN BA94:100769
TI THE FUNCTION OF VACUOLAR BETA-1 3 **GLUCANASE** INVESTIGATED BY ANTISENSE **TRANSFORMATION**. SUSCEPTIBILITY OF **TRANSGENIC** NICOTIANA-SYLVESTRIS PLANTS TO CERCOSPORA-NICOTIANAE INFECTION.
AU NEUHAUS J-M; FLORES S; KEEFE D; AHL-GOY P; MEINS F JR
CS FRIEDRICH MIESCHER-INST., P.O. BOX 2543, CH-4002, SWITZERLAND.
SO PLANT MOL BIOL 19 (5). 1992. 803-813. CODEN: PMBIDB ISSN: 0167-4412
LA English

=> d l47 2 abs

L47 NOT FOUND
The L-number entered has not been defined in this session, or it has been deleted. To see the L-numbers currently defined in this session, enter DISPLAY HISTORY at an arrow prompt (=>).

=> d l5 2 abs

L5 ANSWER 2 OF 47 CAPLUS COPYRIGHT 1998 ACS
AB Bacterial **glucanase** with a carrot extensin leader peptide was shown to be effectively secreted into the intercellular space in tobacco **transgenic** plants. A comparison of the **glucanase** activities in two samples of **transgenic** plants indicated that the heterologous enzyme was more stable in the intercellular space than within the **plant** cells. To study the secretion of **plant** proteins and the role of .beta.-1,3;1,4-**glucanase** in the **plant** defense response, a combination of the rbcS **plant** promoter, the sequence for the carrot extensin leader peptide, and the sequence for thermostable bacterial **glucanase** with a high specific activity was used.

09/003,047

* *

=> s transgenic

L1 2133 TRANSGENIC

=> s plant

L2 119203 PLANT

=> s glucanase

L3 475 GLUCANASE

=> s l1 and l2 and l3

L4 82 L1 AND L2 AND L3

=> s potato

L5 18020 POTATO

=> s l4 and l5

L6 65 L4 AND L5

=> s transformation

L7 53602 TRANSFORMATION

=> s l6 and l7

L8 59 L6 AND L7

=> s microbial

L9 17896 MICROBIAL

=> s l8 and l9

L10 21 L8 AND L9

=> d l10 1-21

1. 5,773,696, Jun. 30, 1998, Antifungal polypeptide and methods for controlling **plant** pathogenic fungi; Jihong Liang, et al., 800/279; 435/320.1, 419; 536/23.6; 800/301, 302 [IMAGE AVAILABLE]

2. 5,714,474, Feb. 3, 1998, Production of enzymes in seeds and their use; Albert J. J. Van Ooijen, et al., 514/44; 119/174; 426/20, 21, 629, 630, 635; 435/69.1, 183, 196, 202; 514/2 [IMAGE AVAILABLE]

3. 5,712,112, Jan. 27, 1998, Gene expression system comprising the promoter region of the alpha-amylase genes; Su May Yu, et al., 435/69.1, 69.7, 69.8, 70.1, 410, 420, 469; 536/23.1, 23.6, 24.1 [IMAGE AVAILABLE]

4. 5,705,375, Jan. 6, 1998, **Transgenic** plants having a modified carbohydrate content; Albert Johannes Joseph Van Ooyen, et al., 800/284; 435/95, 96, 201, 202, 205, 252.3, 320.1, 375; 536/23.7, 24.1, 24.5;

800/288 [IMAGE AVAILABLE]

5. 5,703,044, Dec. 30, 1997, Synergistic antifungal protein and compositions containing same; Walden K. Roberts, et al., 514/12, 2, 8; 530/372, 376 [IMAGE AVAILABLE]

6. 5,695,939, Dec. 9, 1997, **Plant** defense genes and **plant** defense regulatory elements; Qun Zhu, et al., 435/6; 536/23.2, 24.3 [IMAGE AVAILABLE]

7. 5,689,056, Nov. 18, 1997, HMG2 promoter expression system; Carole Lyn Cramer, et al., 800/301; 435/69.1, 70.1, 320.1; 536/23.1, 23.6, 24.1; 800/302 [IMAGE AVAILABLE]

8. 5,670,706, Sep. 23, 1997, Fungal resistant plants, process for obtaining fungal resistant plants and recombinant polynucleotides for use therein; Bernardus J. C. Cornelissen, et al., 800/279; 435/252.3, 320.1; 800/294, 301, 317.4 [IMAGE AVAILABLE]

9. 5,670,349, Sep. 23, 1997, HMG2 promoter expression system and post-harvest production of gene products in plants and **plant** cell cultures; Carole Lyn Cramer, et al., 435/69.1, 320.1; 536/23.1, 24.1 [IMAGE AVAILABLE]

10. 5,608,151, Mar. 4, 1997, Anti-**microbial** proteins; Kirsten Bojsen, et al., 800/298; 435/69.1, 252.3; 536/23.6; 800/301, 320.1 [IMAGE AVAILABLE]

11. 5,607,919, Mar. 4, 1997, Anti-**microbial** proteins; Kirsten Bojsen, et al., 514/12; 530/370 [IMAGE AVAILABLE]

12. 5,567,862, Oct. 22, 1996, Synthetic insecticidal crystal protein gene; Michael J. Adang, et al., 800/302; 435/69.1, 418, 468 [IMAGE AVAILABLE]

13. 5,567,600, Oct. 22, 1996, Synthetic insecticidal crystal protein gene; Michael J. Adang, et al., 536/23.71; 435/69.1, 418, 468, 469, 470; 800/279 [IMAGE AVAILABLE]

14. 5,559,034, Sep. 24, 1996, Synergistic antifungal protein and compositions containing same; Walden K. Roberts, et al., 435/320.1, 69.1, 252.3; 514/2, 8, 12; 530/372, 376; 536/22.1, 23.1, 23.6 [IMAGE AVAILABLE]

15. 5,543,576, Aug. 6, 1996, Production of enzymes in seeds and their use; Albert J. J. van Ooijen, et al., 800/317.3; 426/7, 61, 531, 635; 435/68.1, 69.1, 94, 95, 195, 200, 204, 209, 232, 233, 234 [IMAGE AVAILABLE]

16. 5,530,187, Jun. 25, 1996, **Transgenic** plants containing multiple disease resistance genes; Christopher J. Lamb, et al., 800/279; 435/70.1, 200, 209, 320.1, 414, 418; 536/23.2, 23.6; 800/301 [IMAGE AVAILABLE]

17. 5,521,153, May 28, 1996, Synergistic antifungal protein and compositions containing same; Walden K. Roberts, et al., 514/2, 8, 12; 530/372, 376 [IMAGE AVAILABLE]

18. 5,460,952, Oct. 24, 1995, Gene expression system comprising the promoter region of the .alpha.-amylase genes; Su-May Yu, et al., 435/69.1, 69.7, 69.8, 70.1; 536/23.1, 23.6, 24.1 [IMAGE AVAILABLE]

19. 5,446,127, Aug. 29, 1995, Antipathogenic peptides and compositions containing the same; Francisco Garcia-Olmedo, et al., 530/300, 324, 370 [IMAGE AVAILABLE]

20. 5,399,680, Mar. 21, 1995, Rice chitinase promoter; Qun Zhu, et al., 536/24.1; 435/69.1, 91.3, 418, 419 [IMAGE AVAILABLE]

21. 5,380,831, Jan. 10, 1995, Synthetic insecticidal crystal protein gene; Michael J. Adang, et al., 536/23.71; 435/69.1, 91.1, 91.5, 91.52 [IMAGE AVAILABLE]

=> s transgenic

L1 50782 TRANSGENIC

=> s plant

L2 981799 PLANT

=> s transformation

L3 262584 TRANSFORMATION

=> s glucanase

L4 7458 GLUCANASE

=> s l1 and l2 and l3 and l4

L5 47 L1 AND L2 AND L3 AND L4

=> s potato

L6 91046 POTATO

=> s l5 and l6

L7 0 L5 AND L6

=> d l5 1-47

L5 ANSWER 1 OF 47 CAPLUS COPYRIGHT 1998 ACS
AN 1998:331012 CAPLUS
DN 129:118475
TI Cloning of glucanases and chitinases of Trichoderma harzianum and functional analyses in homologous and heterologous systems
AU Cubero, B.; Garcia, I.; Delgado-Jarana, J.; Limon, M. C.; Benitez, T.; Pintor-Toro, J. A.
CS Instituto de Recursos Naturales y Agrobiologia, CSIC, Seville, 41080, Spain
SO Spec. Publ. - R. Soc. Chem. (1998), 219(Carbohydrates from Trichoderma Reesei and Other Microorganisms), 288-296
CODEN: SROCDO; ISSN: 0260-6291
PB Royal Society of Chemistry
DT Journal
LA English

L5 ANSWER 2 OF 47 CAPLUS COPYRIGHT 1998 ACS
AN 1998:281804 CAPLUS
DN 129:14440
TI The effective secretion of bacterial .beta.-**glucanase** into the intercellular space in Nicotiana tabacum **transgenic** plants
AU Monzavi-Karbassi, B.; Goldenkova, I. V.; Darbinian, N. S.; Kobets, N. S.; Vasilevko, V. T.; Piruzian, E. S.
CS Institute of Molecular Genetics, Russian Academy of Sciences, Moscow, 123182, Russia
SO Russ. J. Genet. (1998), 34(4), 377-380
CODEN: RJGEEQ; ISSN: 1022-7954

PB MAIK Nauka/Interperiodica Publishing
DT Journal
LA English

L5 ANSWER 3 OF 47 CAPLUS COPYRIGHT 1998 ACS
AN 1997:618188 CAPLUS
DN 127:258939
TI Combinations of fungal cell wall degrading enzyme synergistic use with fungicides, **transgenic** plants, and agricultural and therapeutic uses
IN Harman, Gary E.; Lorito, Matteo; Di Pietro, Antonio; Hayes, Christopher K.; Scala, Felice; Kubicek, Christian P.
PA Cornell Research Foundation, Inc., USA
SO PCT Int. Appl., 90 pp.
CODEN: PIXXD2
PI WO 9732973 A1 19970912
DS W: AU, CA, JP
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
AI WO 97-US3344 19970305
PRAI US 96-611504 19960305
DT Patent
LA English

L5 ANSWER 4 OF 47 CAPLUS COPYRIGHT 1998 ACS
AN 1997:367389 CAPLUS
DN 127:61585
TI Silencing of a .beta.-1,3-**glucanase** transgene is overcome during seed formation
AU Balandin, Teresa; Castresana, Carmen
CS Centro Nacional de Biotecnologia, C.S.I.C, Campus Universidad Autonoma, Madrid, E-28049, Spain
SO Plant Mol. Biol. (1997), 34(1), 125-137
CODEN: PMBIDB; ISSN: 0167-4412
PB Kluwer
DT Journal
LA English

L5 ANSWER 5 OF 47 CAPLUS COPYRIGHT 1998 ACS
AN 1997:231336 CAPLUS
DN 126:303834
TI Chemically regulated promoters and pathogenesis-related genes and their use in increasing **plant** pathogen resistance
IN Ryals, John A.; Alexander, Danny C.; Beck, James J.; Duesing, John H.; et al.
PA Ciba-Geigy Corp., USA
SO U.S., 175 pp. Cont.-in-part of U.S. Ser. No. 93,301, abandoned.
CODEN: USXXAM
PI US 5614395 A 19970325
AI US 94-181271 19940113
PRAI US 88-165667 19880308
US 88-165667 19880308
US 89-305566 19890206
US 89-329018 19890324
US 89-368672 19890620
US 89-425504 19891020
US 89-425504 19891020
US 90-580431 19900907
US 90-632441 19901221
US 91-678378 19910401
US 91-768122 19910927
US 92-848506 19920306
US 92-973197 19921106
US 93-42847 19930406
US 93-45957 19930412
US 93-93301 19930716

DT Patent
LA English

L5 ANSWER 6 OF 47 CAPLUS COPYRIGHT 1998 ACS
AN 1997:74978 CAPLUS
DN 126:153471
TI Identification of a salicylic acid-responsive element in the promoter of the tobacco pathogenesis-related .beta.-1,3-**glucanase** gene, PR-2d
AU Shah, Jyoti; Klessig, Daniel F.
CS Waksman Institute and Department of Molecular Biology and Biochemistry, Rutgers, The State University of New Jersey, Piscataway, NJ, 08855, USA
SO Plant J. (1996), 10(6), 1089-1101
CODEN: PLJUED; ISSN: 0960-7412
PB Blackwell
DT Journal
LA English

L5 ANSWER 7 OF 47 CAPLUS COPYRIGHT 1998 ACS
AN 1996:621628 CAPLUS
DN 125:270749
TI Constitutive expression of an inducible .beta.-1,3-**glucanase** in alfalfa reduces disease severity caused by the oomycete pathogen Phytophthora megasperma f. sp medicaginis, but does not reduce disease severity of chitin-containing fungi
AU Masoud, Sameer A.; Zhu, Qun; Lamb, Chris; Dixon, Richard A.
CS Plant Biology Div., Samuel Roberts Noble Foundation, Ardmore, OK, 73402, USA
SO Transgenic Res. (1996), 5(5), 313-323
CODEN: TRSEES; ISSN: 0962-8819
DT Journal
LA English

L5 ANSWER 8 OF 47 CAPLUS COPYRIGHT 1998 ACS
AN 1996:502539 CAPLUS
DN 125:163479
TI A benzothiadiazole derivative induces systemic acquired resistance in tobacco
AU Friedrich, Leslie; Lawton, Kay; Ruess, Wilhelm; Masner, Peter; Specker, Nicole; Rella, Manuela Gut; Meier, Beatrice; Dincher, Sandra; Staub, Theodor; et al.
CS Ciba-Geigy Agricultural Biotechnology, Research Triangle Park, NC, 27709-2257, USA
SO Plant J. (1996), 10(1), 61-70
CODEN: PLJUED; ISSN: 0960-7412
DT Journal
LA English

L5 ANSWER 9 OF 47 CAPLUS COPYRIGHT 1998 ACS
AN 1996:241158 CAPLUS
DN 124:308848
TI **Transgenic** barley expressing a protein-engineered, thermostable (1,3-1,4)-.beta.-**glucanase** during germination
AU Jensen, Lisbeth Gath; Olsen, Ole; Kops, Oliver; Wolf, Norbert; Thomsen, Karl Kristian; von Wettstein, Diter
CS Dep. Physiol., Carlsberg Lab., Copenhagen, DK-2500, Den.
SO Proc. Natl. Acad. Sci. U. S. A. (1996), 93(8), 3487-91
CODEN: PNASA6; ISSN: 0027-8424
DT Journal
LA English

L5 ANSWER 10 OF 47 CAPLUS COPYRIGHT 1998 ACS
AN 1996:235809 CAPLUS
DN 124:312496
TI Apoplastic expression of xylanase and .beta.(1-3,1-4)

glucanase domains of the xyn D gene from Ruminococcus flavefaciens leads to functional polypeptides in **transgenic** tobacco plants
AU Herbers, Karin; Flint, Harry J.; Sonnewald, Uwe
CS Institut fur Pflanzengenetik und Kulturpflanzenforschung, Gatersleben, 06466, Germany
SO Mol. Breed. (1996), 2(1), 81-7
CODEN: MOBRFL; ISSN: 1380-3743
DT Journal
LA English

L5 ANSWER 11 OF 47 CAPLUS COPYRIGHT 1998 ACS
AN 1996:169822 CAPLUS
DN 124:222078
TI Construction of Nicotiana tabacum **transgenic** plants expressing the bacterial gene for .beta.-1,3-**glucanase**: II. **Transgenic** plants expressing the .beta.-1,3-**glucanase** gene of Clostridium thermocellum represent a model for studying differential expression of stress response-related genes
AU Darbinyan, N. S.; Popov, Yu. G.; Mochul'skii, A. V.; Oming, G.; Piruzyan, E. S.; Vasilevko, V. T.
CS Yerevan State Univ., Yerevan, 375008, Armenia
SO Russ. J. Genet. (Transl. of Genetika (Moscow)) (1996), 32(2), 178-83
CODEN: RJGEEQ; ISSN: 1022-7954
DT Journal
LA English

L5 ANSWER 12 OF 47 CAPLUS COPYRIGHT 1998 ACS
AN 1996:169821 CAPLUS
DN 124:222077
TI Construction of Nicotiana tabacum **transgenic** plants expressing the bacterial gene for .beta.-1,3-**glucanase**: I. Construction of vectors for transfection of **plant** cells and expression of the modified .beta.-1,3-**glucanase** gene from Clostridium thermocellum in tobacco protoplasts
AU Darbinyan, N. S.; Popov, Yu. G.; Mochul'skii, A. V.; Volkova, L. V.; Piruzyan, E. S.; Vasilevko, V. T.
CS Yerevan State Univ., Yerevan, 375008, Armenia
SO Russ. J. Genet. (Transl. of Genetika (Moscow)) (1996), 32(2), 172-7
CODEN: RJGEEQ; ISSN: 1022-7954
DT Journal
LA English

L5 ANSWER 13 OF 47 CAPLUS COPYRIGHT 1998 ACS
AN 1996:78203 CAPLUS
DN 124:137429
TI The expression of an abundant transmitting tract-specific endoglucanase (Sp41) is promoter-dependent and not essential for the reproductive physiology of tobacco
AU Sessa, Guido; Fluhr, Robert
CS Dep. Plant Genetics, Inst. Science, Rehovot, 76100, Israel
SO Plant Mol. Biol. (1995), 29(5), 969-82
CODEN: PMBIDB; ISSN: 0167-4412
DT Journal
LA English

L5 ANSWER 14 OF 47 CAPLUS COPYRIGHT 1998 ACS
AN 1996:44500 CAPLUS
DN 124:108012
TI Genomic male sterility in lettuce, a baseline for the production of F1 hybrids
AU Curtis, Ian S.; He, Caiping; Scott, Rod; Power, J. Brian; Davey, Michael R.
CS Plant Genetic Manipulation Group, Department of Life Science, University of Nottingham, Nottingham, NG7 2RD, UK

SO Plant Sci. (Shannon, Irel.) (1996), 113(1), 113-19
CODEN: PLSCE4; ISSN: 0168-9452
DT Journal
LA English

L5 ANSWER 15 OF 47 CAPLUS COPYRIGHT 1998 ACS
AN 1996:16540 CAPLUS
DN 124:107975
TI Evaluation of the role of .beta.-1,3-**glucanase** in **transgenic** plants
AU Zheng, Yuzhi
CS North Dakota State Univ. of Agriculture and Applied Science, ND, USA
SO (1995) 126 pp. Avail.: Univ. Microfilms Int., Order No.: DA9533129
From: Diss. Abstr. Int., B 1995, 56(6), 3053
DT Dissertation
LA English

L5 ANSWER 16 OF 47 CAPLUS COPYRIGHT 1998 ACS
AN 1995:770661 CAPLUS
DN 123:223066
TI Enhanced quantitative resistance against fungal disease by combinatorial expression of different barley antifungal proteins in **transgenic** tobacco
AU Jach, Guido; Goernhardt, Birgit; Mundy, John; Logemann, Juergen; Pinsdorf, Elke; Leah, Robert; Schell, Jeff; Maas, Christoph
CS Abteilung Genetische Grundlagen der Pflanzenzuchtung, Max-Planck Institut Zuechtungsforschung, Cologne, D-50829, Germany
SO Plant J. (1995), Volume Date 1995, 8(1), 97-109
CODEN: PLJUED; ISSN: 0960-7412
DT Journal
LA English

L5 ANSWER 17 OF 47 CAPLUS COPYRIGHT 1998 ACS
AN 1995:549415 CAPLUS
DN 122:283865
TI Introduction of foreign genes into cereal tissue by **transformation** of embryonic meristem and the preparation of **transgenic** plants
IN Salmenkallio-Marttila, Marjatta; Aspegren, Kristian; Ritala, Anneli; Mannonen, Leena; Kurten, Ulrika; Puupponen-Pimiae, Riitta; Kauppinen, Veli; Teeri, Teemu H.
PA Valtion Teknillinen Tutkimuskeskus, Finland
SO PCT Int. Appl., 40 pp.
CODEN: PIXXD2
PI WO 9506127 A1 19950302
DS W: AU, BR, CA, CN, CZ, FI, JP, LT, LV, NO, NZ, RU, US
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
AI WO 94-FI365 19940822
PRAI FI 93-3682 19930820
DT Patent
LA English

L5 ANSWER 18 OF 47 CAPLUS COPYRIGHT 1998 ACS
AN 1995:523510 CAPLUS
DN 123:5663
TI Secretion of a heat-stable fungal .beta.-**glucanase** from **transgenic**, suspension-cultured barley cells
AU Aspegren, Kristian; Mannonen, Leena; Ritala, Anneli; Puupponen-Pimia, Riitta; Kurten, Ulrika; Salmenkallio-Marttila, Marjatta; Kauppinen, Veli; Teeri, Teemu H.
CS Institute of Biotechnology, University of Helsinki, FIN-00014, Finland
SO Mol. Breed. (1995), 1(1), 91-9
CODEN: MOBRFL; ISSN: 1380-3743
DT Journal
LA English

L5 ANSWER 19 OF 47 CAPLUS COPYRIGHT 1998 ACS
AN 1995:475465 CAPLUS
DN 123:49043
TI Differential in vitro DNA binding activity to a promoter element of the gn1 .beta.-1,3-**glucanase** gene in hypersensitively reacting tobacco plants
AU Alonso, Elena; Niebel, Fernanda De Carvalho; Obregon, Patricia; Gheysen, Godelieve; Inze, Dirk; Van Montagu, Marc; Castresana, Carmen
CS Centro de Investigaciones Biologicas, C.S.I.C., Madrid, E-28006, Spain
SO Plant J. (1995), 7(2), 309-20
CODEN: PLJUED; ISSN: 0960-7412
DT Journal
LA English

L5 ANSWER 20 OF 47 CAPLUS COPYRIGHT 1998 ACS
AN 1994:626591 CAPLUS
DN 121:226591
TI Enhanced protection against fungal attack by constitutive co-expression of chitinase and **glucanase** genes in **transgenic** tobacco
AU Zhu, Qun; Maher, Eileen A.; Masoud, Sameer; Dixon, Richard A.; Lamb, Chris J.
CS Plant Biol. Lab., Salk Inst. Biol. Studies, La Jolla, CA, 92037, USA
SO Bio/Technology (1994), 12(8), 807-12
CODEN: BTCHDA; ISSN: 0733-222X
DT Journal
LA English

L5 ANSWER 21 OF 47 CAPLUS COPYRIGHT 1998 ACS
AN 1994:319601 CAPLUS
DN 120:319601
TI Evidence for a role of .beta.-1,3-**glucanase** in dicot seed germination
AU Vogeli-Lange, Regina; Voegeli-Lange, Regina; Hart, Craig M.; Beffa, Roland; Nagy, Ferenc; Meins, Frederick Jr
CS Friedrich Miescher-Institut, Basel, CH-4002, Switz.
SO Plant J. (1994), 5(2), 273-8
CODEN: PLJUED; ISSN: 0960-7412
DT Journal
LA English

L5 ANSWER 22 OF 47 CAPLUS COPYRIGHT 1998 ACS
AN 1993:621539 CAPLUS
DN 119:221539
TI Genetic engineering and **plant** breeding, especially cereals
AU von Wettstein, Diter
CS Dep. Physiol., Carlsberg Lab., Copenhagen Valby, DK-2500, Den.
SO Food Rev. Int. (1993), 9(3), 411-22
CODEN: FRINEL; ISSN: 8755-9129
DT Journal; General Review
LA English

L5 ANSWER 23 OF 47 CAPLUS COPYRIGHT 1998 ACS
AN 1993:76107 CAPLUS
DN 118:76107
TI Cloning of cDNA for novel .beta.-1,3-**glucanase** activity of soybean
IN Sass, Catherine; Leguay, Jean Jacques; Grison, Rene; Toppan, Alain
PA Elf Sanofi, Fr.; Societe Nationale Elf Aquitaine
SO PCT Int. Appl., 80 pp.
CODEN: PIXXD2
PI WO 9216632 A1 19921001
DS W: AU, CA, JP, US

RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE
AI WO 92-FR268 19920325
PRAI FR 91-3588 19910325
DT Patent
LA French

L5 ANSWER 24 OF 47 CAPLUS COPYRIGHT 1998 ACS
AN 1992:528337 CAPLUS
DN 117:128337
TI The function of vacuolar .beta.-1,3-**glucanase** investigated by antisense **transformation**. Susceptibility of **transgenic** Nicotiana sylvestris plants to Cercospora nicotianae infection
AU Neuhaus, Jean Marc; Flores, Susan; Keefe, Dennis; Ahl-Goy, Patricia; Meins, Frederick, Jr.
CS Friedrich Miescher-Inst., CH-4002, Switz.
SO Plant Mol. Biol. (1992), 19(5), 803-13
CODEN: PMBIDB; ISSN: 0167-4412
DT Journal
LA English

L5 ANSWER 25 OF 47 CAPLUS COPYRIGHT 1998 ACS
AN 1992:505349 CAPLUS
DN 117:105349
TI Suppression of .beta.-1,3-**glucanase** transgene expression in homozygous plants
AU De Carvalho, Fernanda; Gheysen, Godelieve; Kushnir, Sergei; Van Montagu, Marc; Inze, Dirk; Castresana, Carmen
CS Lab. Genet., Univ. Gent, Ghent, B-9000, Belg.
SO EMBO J. (1992), 11(7), 2595-602
CODEN: EMJODG; ISSN: 0261-4189
DT Journal
LA English

L5 ANSWER 26 OF 47 CAPLUS COPYRIGHT 1998 ACS
AN 1992:211227 CAPLUS
DN 116:211227
TI Constitutive expression of stress-inducible genes, including pathogenesis-related 1 protein gene in a **transgenic** interspecific hybrid of Nicotiana glutinosa .times. Nicotiana debneyi
AU Ohashi, Yuko; Ohshima, Masahiro; Itoh, Hirotaka; Matsuoka, Makoto; Watanabe, Shinichiro; Murakami, Taka; Hosokawa, Daijiro
CS Natl. Inst. Agrobiol. Resourc., Tsukuba, 305, Japan
SO Plant Cell Physiol. (1992), 33(2), 177-87
CODEN: PCPHA5; ISSN: 0032-0781
DT Journal
LA English

L5 ANSWER 27 OF 47 CAPLUS COPYRIGHT 1998 ACS
AN 1992:146144 CAPLUS
DN 116:146144
TI Control of **plant** pathogens with compositions comprising lytic peptides and hydrolytic enzymes and **transgenic** plants producing such compositions
IN Ryals, John A.; Gay, Philippe Bernard; Ahl Goy, Patricia A.; Garcia-Olmedo, Francisco
PA Ciba-Geigy A.-G., Switz.
SO Eur. Pat. Appl., 35 pp.
CODEN: EPXXDW
PI EP 448511 A1 19910925
DS R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE
AI EP 91-810144 19910304
PRAI US 90-491801 19900312
DT Patent
LA English

L5 ANSWER 28 OF 47 CAPLUS COPYRIGHT 1998 ACS
AN 1991:529121 CAPLUS
DN 115:129121
TI A chitinase gene from tobacco and the use of the promoter for expression of heterologous genes in plants
IN Meins, Frederick, Jr.; Shinshi, Hideaki; Neuhaus, Jean Marc
PA Ciba-Geigy A.-G., Switz.
SO Eur. Pat. Appl., 62 pp.
CODEN: EPXXDW
PI EP 418695 A1 19910327
DS R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE
AI EP 90-117389 19900910
PRAI CH 89-3334 19890913
DT Patent
LA German

L5 ANSWER 29 OF 47 CAPLUS COPYRIGHT 1998 ACS
AN 1991:201132 CAPLUS
DN 114:201132
TI cDNA cloning of genes for pathogenesis-related proteins for the preparation of **transgenic** disease-resistant plants
IN Ryals, John A.; Alexander, Danny C.; Goodman, Robert M.; Meins, Frederick; Payne, George B.; Stinson, Jeffrey R.; Neuhaus, Jean Marc; Moyer, Mary B.; Ward, Eric Russell; Williams, Shericca Cherrer
PA Ciba-Geigy A.-G., Switz.
SO Eur. Pat. Appl., 77 pp.
CODEN: EPXXDW
PI EP 392225 A2 19901017
DS R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE
AI EP 90-105336 19900321
PRAI US 89-329018 19890324
US 89-368672 19890620
US 89-425504 19891020
DT Patent
LA English

L5 ANSWER 30 OF 47 CAPLUS COPYRIGHT 1998 ACS
AN 1989:418497 CAPLUS
DN 111:18497
TI Cauliflower mosaic virus gene VI causes growth suppression, development of necrotic spots and expression of defence-related genes in **transgenic** tobacco plants
AU Takahashi, Hideki; Shimamoto, Ko; Ehara, Yoshio
CS Fac. Agric., Tohoku Univ., Sendai, 980, Japan
SO MGG, Mol. Gen. Genet. (1989), 216(2-3), 188-94
CODEN: MGGEAE; ISSN: 0026-8925
DT Journal
LA English

L5 ANSWER 31 OF 47 AGRICOLA
AN 97:52778 AGRICOLA
DN IND20578813
TI Enhanced quantitative resistance against fungal disease by combinatorial expression of different barley antifungal proteins in **transgenic** tobacco.
AU Jach, G.; Gornhardt, B.; Mundy, J.; Logemann, J.; Pinsdorf, E.; Leah, R.; Schell, J.; Maas, C.
CS Max-Planck Institut fur Zuchtungsforschung, Abteilung Genetische Grundlagen der Pflanzenzuchtung, Cologne, Germany.
SO The Plant journal : for cell and molecular biology, July 1995. Vol. 8, No. 1. p. 97-109
Publisher: Oxford : Blackwell Scientific Publishers and BIOS Scientific Publishers in association with the Society for Experimental Biology, c1991-
ISSN: 0960-7412

NTE Includes references
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DT Article
FS Non-U.S. Imprint other than FAO
LA English

L5 ANSWER 32 OF 47 AGRICOLA
AN 97:17903 AGRICOLA
DN IND20550855
TI Pathogenesis-related functions of **plant** beta-1,3-glucanases investigated by antisense **transformation** --a review.
AU Beffa, R.; Meins, F. Jr
CS University of Lausanne, Lausanne, Switzerland.
SO Gene, Nov 7, 1996. Vol. 179, No. 1. p. 97-103
Publisher: Amsterdam : Elsevier Science.
CODEN: GENED6; ISSN: 0378-1119
NTE Paper presented at the Chulabhorn Research Institute Conference on Biotechnology Research and Applications for Sustainable Development held August 7-10, 1995, Bangkok, Thailand.
Includes references
CY Netherlands
DT Article; Law
FS Non-U.S. Imprint other than FAO
LA English

L5 ANSWER 33 OF 47 AGRICOLA
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DN IND20534764
TI Decreased susceptibility to viral disease of beta-1,3-**glucanase**-deficient plants generated by antisense **transformation**.
AU Beffa, R.S.; Hofer, R.M.; Thomas, M.; Meins, F. Jr
CS University of Lausanne, Lausanne, Switzerland.
AV DNAL (QK725.P532)
SO The Plant cell, June 1996. Vol. 8, No. 6. p. 1001-1011
Publisher: [Rockville, MD : American Society of Plant Physiologists, c1989-
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NTE Includes references
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DT Article
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LA English

L5 ANSWER 34 OF 47 AGRICOLA
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DN IND20527910
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AU Aspegren, K.; Mannonen, L.; Ritala, A.; Puupponen-Pimia, R.; Kurten, U.; Salmenkallio-Marttila, M.; Kauppinen, V.; Teeri, T.H.
CS University of Helsinki, Helsinki, Finland.
SO Molecular breeding : new strategies in plant improvement, 1995. Vol. 1, No. 1. p. 91-99
Publisher: Dordrecht ; Boston : Kluwer Academic Publishers, c1995-
CODEN: MOBRFL; ISSN: 1380-3743
NTE Includes references
CY Netherlands
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FS Non-U.S. Imprint other than FAO
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L5 ANSWER 35 OF 47 AGRICOLA
AN 96:40162 AGRICOLA

DN IND20520138
TI **Transgenic** barley expressing a protein-engineered, thermostable (1,3-1,4-)-beta-**glucanase** during germination.
AU Jensen, L.G.; Olsen, O.; Kops, O.; Wolf, N.; Thomsen, K.K.; Wettstein, D. von.
CS Carlsberg Laboratory, Copenhagen, Valby, Denmark.
AV DNAL (500 N21P)
SO Proceedings of the National Academy of Sciences of the United States of America, Apr 16, 1996. Vol. 93, No. 8. p. 3487-3491
Publisher: Washington, D.C. : National Academy of Sciences,
CODEN: PNASA6; ISSN: 0027-8424
NTE Includes references
CY District of Columbia; United States
DT Article; Conference
FS U.S. Imprints not USDA, Experiment or Extension
LA English

L5 ANSWER 36 OF 47 AGRICOLA
AN 95:20751 AGRICOLA
DN IND20451489
TI Xyloglucan endotransglycosylase and **plant** growth.
AU De Silva, J.; Arrowsmith, D.; Hellyer, A.; Whiteman, S.; Robinson, S.
CS Unilever Research Laboratory, Sharnbrook, Bedford, UK
AV DNAL (450 J8224)
SO Journal of experimental botany, Nov 1994. Vol. 45, No. 280. p. 1693-1701
Publisher: Oxford : Oxford University Press.
CODEN: JEBOA6; ISSN: 0022-0957
NTE In the special issue: Growth in planta / edited by T.L. Wang, W.J. Davies, and C.J. Pollock. Proceedings of a meeting held April 11-15, 1994, Swansea, UK.
Includes references
CY England; United Kingdom
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L5 ANSWER 37 OF 47 AGRICOLA
AN 93:80100 AGRICOLA
DN IND93054245
TI Functional analysis of CX-cellulase (endo-beta-1,4-**glucanase**) gene expression in **transgenic** tomato fruit.
AU Lashbrook, C.C.; Bennett, A.B.
AV DNAL (S494.5.B563C87)
SO Current plant science and biotechnology in agriculture, 1993. Vol. 16 p. 123-128
Publisher: Dordrecht : Kluwer Academic Publishers.
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L5 ANSWER 38 OF 47 AGRICOLA
AN 93:42465 AGRICOLA
DN IND93024110
TI Extracellular targeting of the vacuolar tobacco proteins AP24, chitinase and beta-1,3-**glucanase** in **transgenic** plants.

AU Melchers, L.S.; Sela-Buurlage, M.B.; Vloemans, A.S.; Woloshuk, C.P.; Roekel, J.S.C. van; Pen, J.; Elzen, P.J.M. van den; Cornelissen, B.J.C.
CS MOGEN International NV, Leiden, The Netherlands
AV DNAL (QK710.P62)
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Publisher: Dordrecht : Kluwer Academic Publishers.
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NTE Includes references.
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L5 ANSWER 39 OF 47 AGRICOLA
AN 92:115006 AGRICOLA
DN IND92070251
TI Premature dissolution of the microsporocyte callose wall causes male sterility in **transgenic** tobacco.
AU Worrall, D.; Hird, D.L.; Hodge, R.; Paul, W.; Draper, J.; Scott, R.
CS University of Leicester, Leicester, UK
AV DNAL (QK725.P532)
SO The Plant cell, July 1992. Vol. 4, No. 7. p. 759-771
Publisher: Rockville, Md. : American Society of Plant Physiologists.
ISSN: 1040-4651
NTE Includes references.
DT Article
FS U.S. Imprints not USDA, Experiment or Extension
LA English

L5 ANSWER 40 OF 47 AGRICOLA
AN 92:112708 AGRICOLA
DN IND92067944
TI The function of vacuolar beta-1,3-**glucanase** investigated by antisense **transformation**. Susceptibility of **transgenic** Nicotiana sylvestris plants to Cercospora nicotianae infection.
AU Neuhaus, J.M.; Flores, S.; Keefe, D.; Ahl-Goy, P.; Meins, F. Jr
CS Friedrich Miescher-Institut, Switzerland
AV DNAL (QK710.P62)
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Publisher: Dordrecht : Kluwer Academic Publishers.
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NTE Includes references.
DT Article
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L5 ANSWER 41 OF 47 AGRICOLA
AN 92:90630 AGRICOLA
DN IND92052794
TI Suppression of beta-1,3-**glucanase** transgene expression in homozygous plants.
AU Carvalho, F. de; Gheysen, G.; Kushnir, S.; Montagu, M. van; Inze, D.; Castresana, C.
CS Universiteit Gent, Gent, Belgium
AV DNAL (QH506.E46)
SO The EMBO journal - European Molecular Biology Organization, July 1992. Vol. 11, No. 7. p. 2595-2602
Publisher: Oxford, Eng. : IRL Press.
CODEN: EMJODG; ISSN: 0261-4189
NTE Includes references.
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L5 ANSWER 42 OF 47 AGRICOLA
AN 92:32088 AGRICOLA
DN IND92012098
TI Tissue-specific and pathogen-induced regulation of a Nicotiana plumbaginifolia beta-1,3-**glucanase** gene.
AU Castresana, C.; Carvalho, F. de; Gheysen, G.; Habets, M.; Inze, D.; Montagu, M. van
CS Rijksuniversiteit Gent, Gent, Belgium
AV DNAL (QK725.P532)
SO The Plant cell, Dec 1990. Vol. 2, No. 12. p. 1131-1143
Publisher: Rockville, Md. : American Society of Plant Physiologists.
ISSN: 1040-4651
NTE Includes references.
DT Article
FS U.S. Imprints not USDA, Experiment or Extension
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L5 ANSWER 43 OF 47 BIOSIS COPYRIGHT 1998 BIOSIS
AN 97:226731 BIOSIS
DN 99518447
TI The role of cytokinin biosynthetic gene in regulating the expression of a class of pathogenesis-related protein genes in tobacco plants.
AU Ma Qing-Hu; Song Yan-Ru; Sun Jing-San
CS Inst. Bot., Acad. Sinica, Beijing 100093, China
SO Acta Botanica Sinica 38 (11). 1996. 870-874. ISSN: 0577-7496
LA English

L5 ANSWER 44 OF 47 BIOSIS COPYRIGHT 1998 BIOSIS
AN 97:71140 BIOSIS
DN 99370343
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AU Shah J; Klessig D F
CS Waksman Inst., Dep. Molecular Biol., Rutgers, State Univ. New Jersey, P.O. Box 759, Piscataway, NJ 08855, USA
SO Plant Journal 10 (6). 1996. 1089-1101. ISSN: 0960-7412
LA English

L5 ANSWER 45 OF 47 BIOSIS COPYRIGHT 1998 BIOSIS
AN 96:332832 BIOSIS
DN 99055188
TI Construction of Nicotiana tabacum L. **transgenic** plants expressing the bacterial gene for beta-1,3-**glucanase**: I. Construction of vectors for transfection of **plant** cells and expression of the modified beta-1,3-**glucanase** gene from Clostridium thermocellum in tobacco protoplasts.
AU Darbinyan N S; Popov Yu G; Mochul'skii A V; Volkova L V; Piruzyan E S; Vasilevko V T
CS Yerevan State Univ., Yerevan 375008, Armenia
SO Genetika 32 (2). 1996. 197-203. ISSN: 0016-6758
LA Russian

L5 ANSWER 46 OF 47 BIOSIS COPYRIGHT 1998 BIOSIS
AN 95:54149 BIOSIS
DN 98068449
TI Analysis of **transgenic** alfalfa plants which express genes coding for a rice chitinase and an alfalfa **glucanase**.
AU Masoud S; Lamb C J; Dixon R A
CS The Samuel Roberts Noble Found., Plant Biol. Div., P.O. Box 2180, Ardmore, OK 73402, USA
SO Annual Meeting of the American Phytopathological Society, Albuquerque, New Mexico, USA, August 6-10, 1994. Phytopathology 84